

MSDP INSTRUMENT AND DATA at THEMIS and PIC DU MIDI

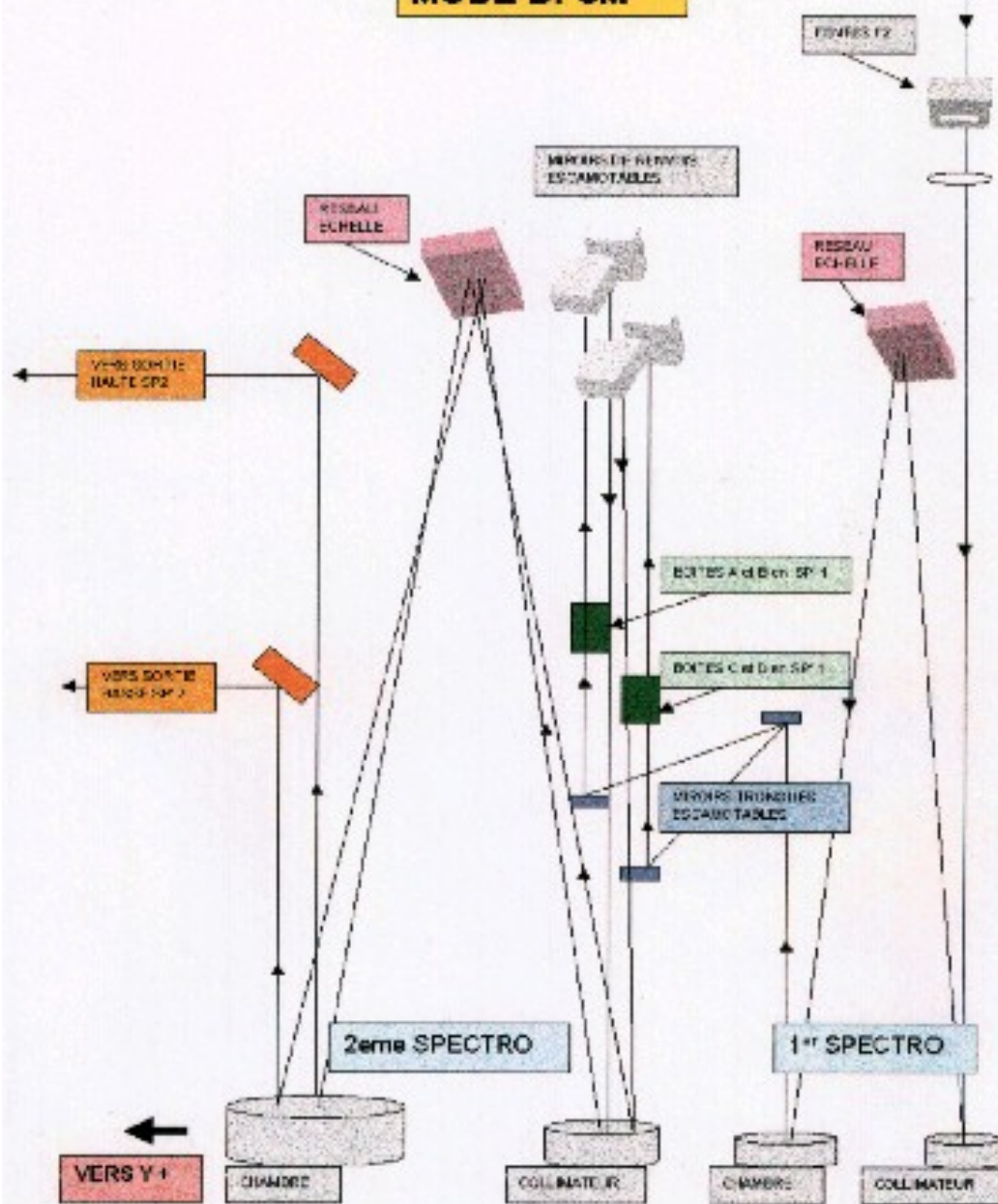
Thierry ROUDIER,
Nadège MEUNIER

MSDP Workshop, Tarbes, 18-20th January 2006

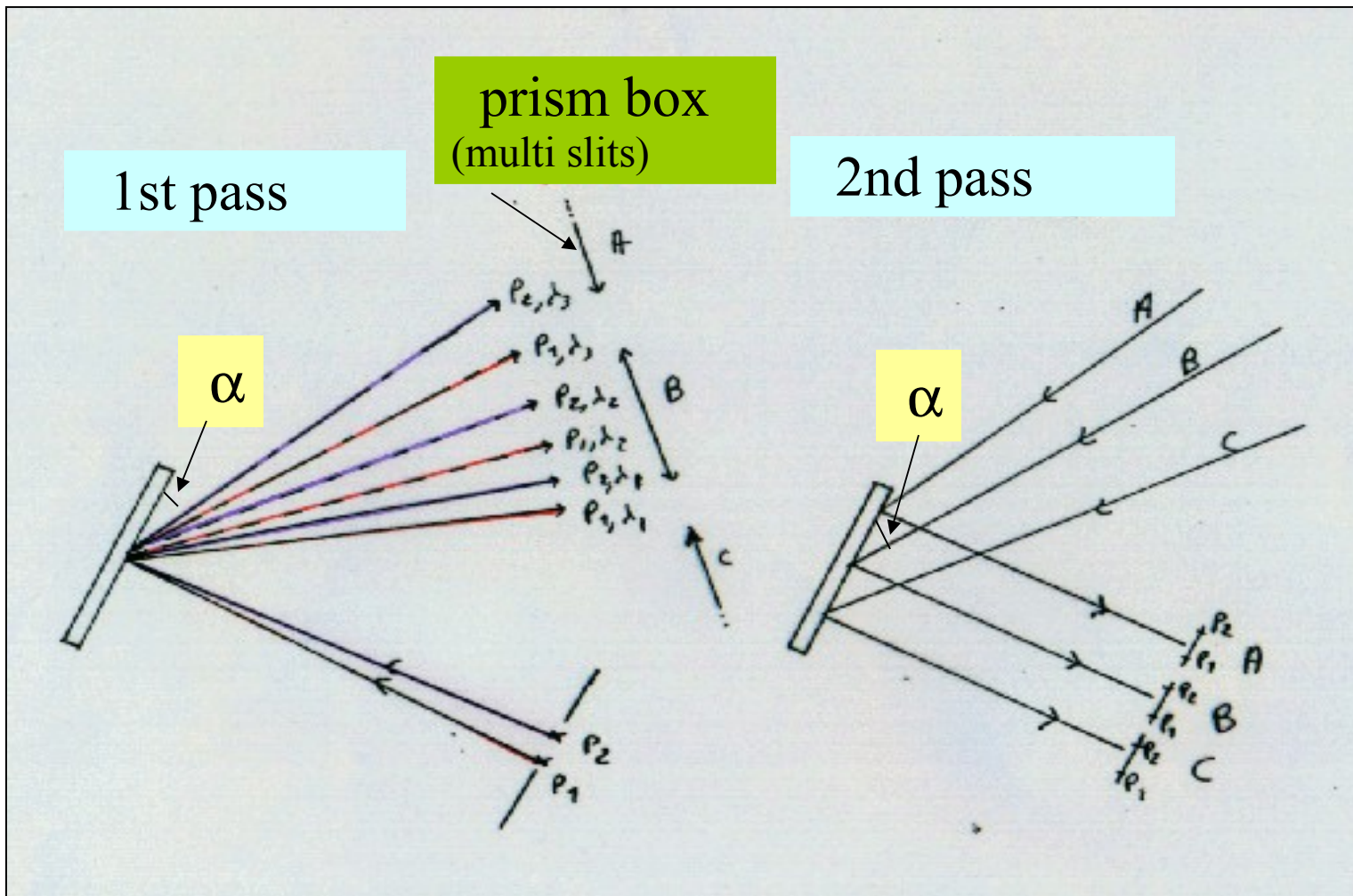
SPECTROGRAPHES THEMIS VUE DE COTE

00 DEC 88

MODE DPSM

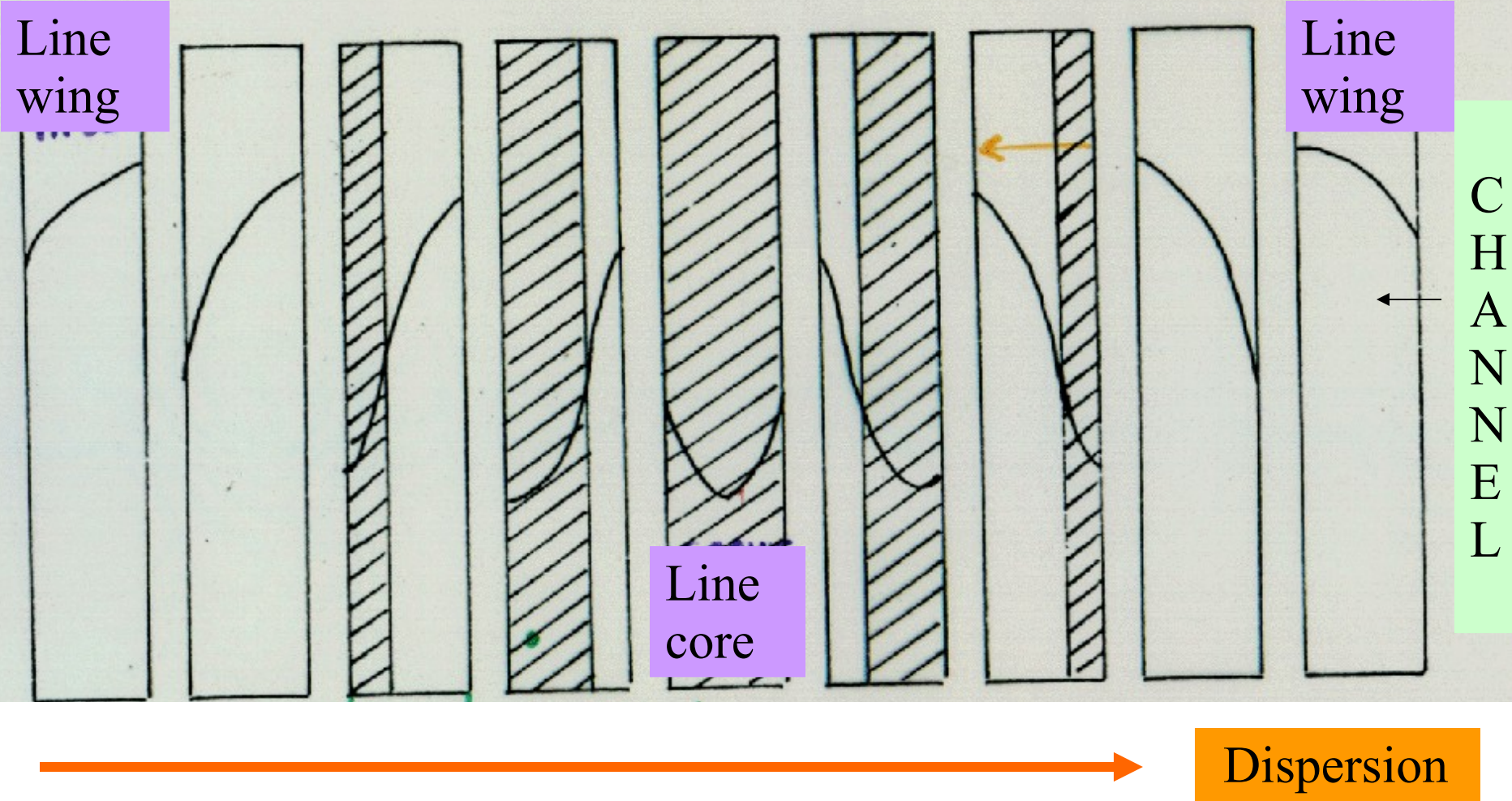


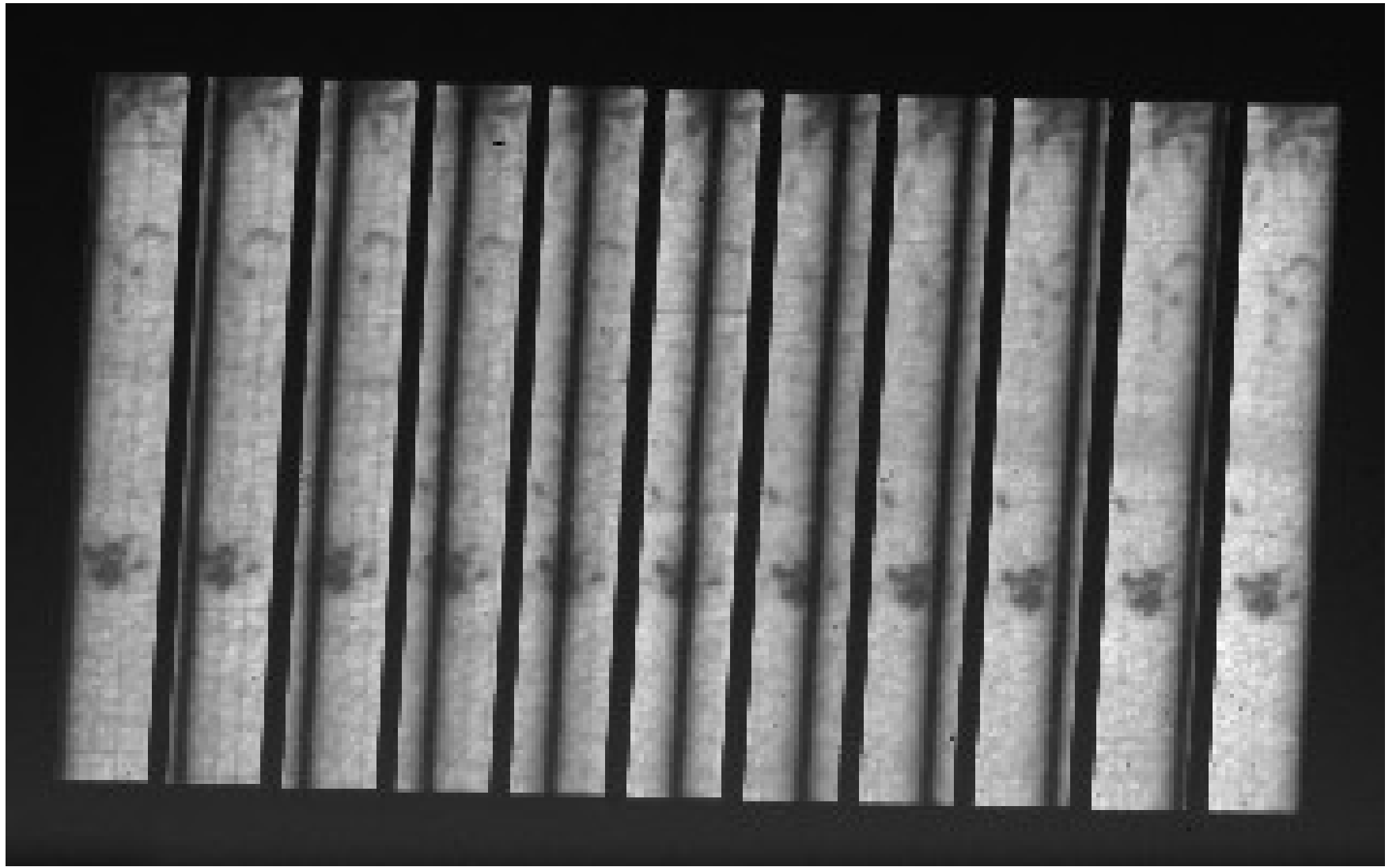
DOUBLE PASS ON THE GRATING

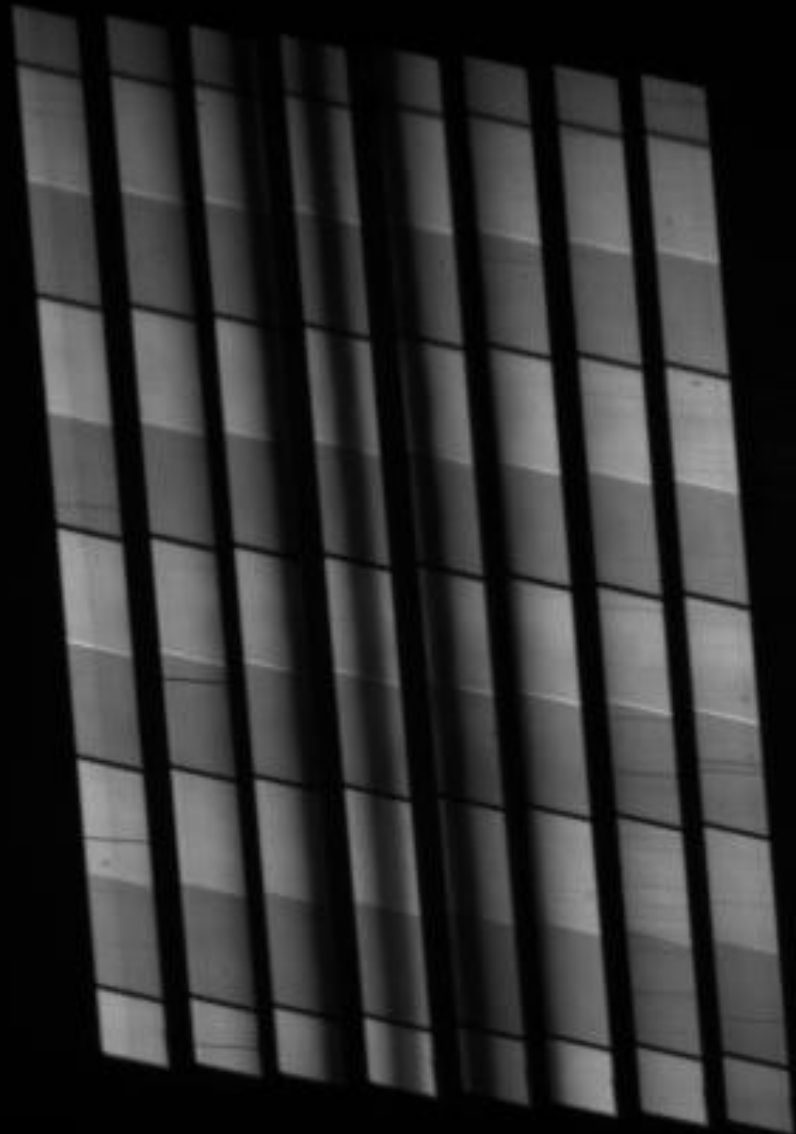


MSDP SPECTRA

Each channel corresponds to a narrow band filter, with a variation of the wavelength inside the channel in the direction opposite to the dispersion (Pic, box 9 and 11 channel, $invern=0$) or in the same direction (THEMIS, 2 boxes 8 channel, $invern$ aile)





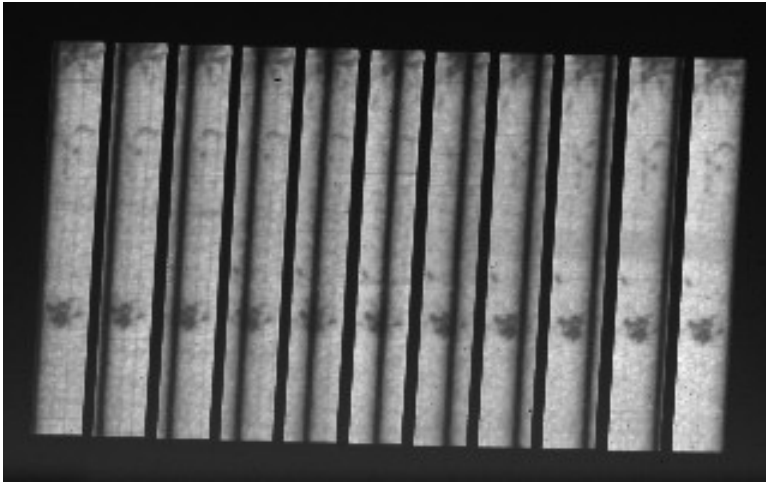


MSDP OBSERVATIONS

STEP_Y

i

x

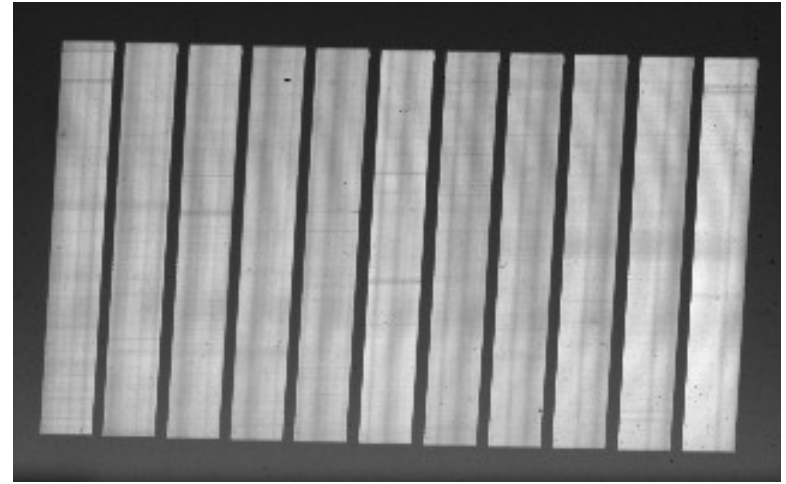


OBSERVED SPECTRA

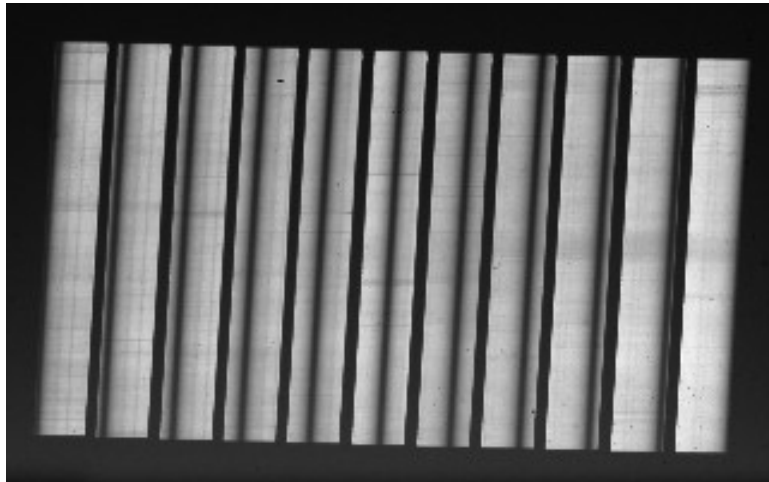
y

j

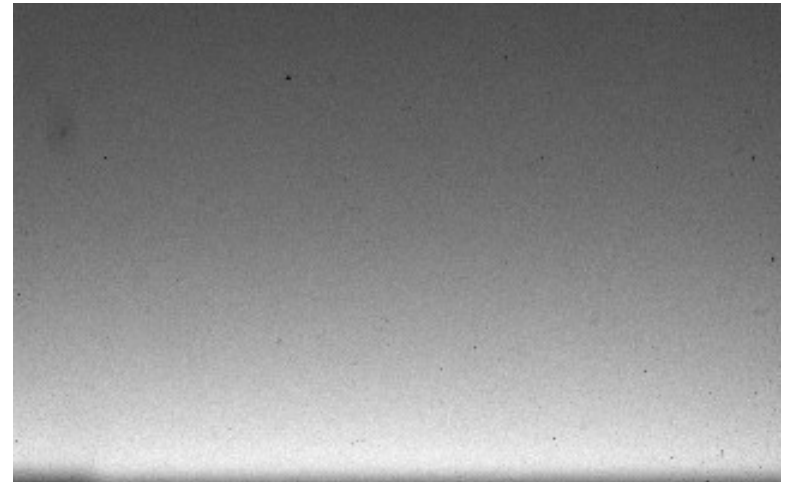
STEP_X



FIELD STOP (F.S.)



FLAT FIELD (F.F.)

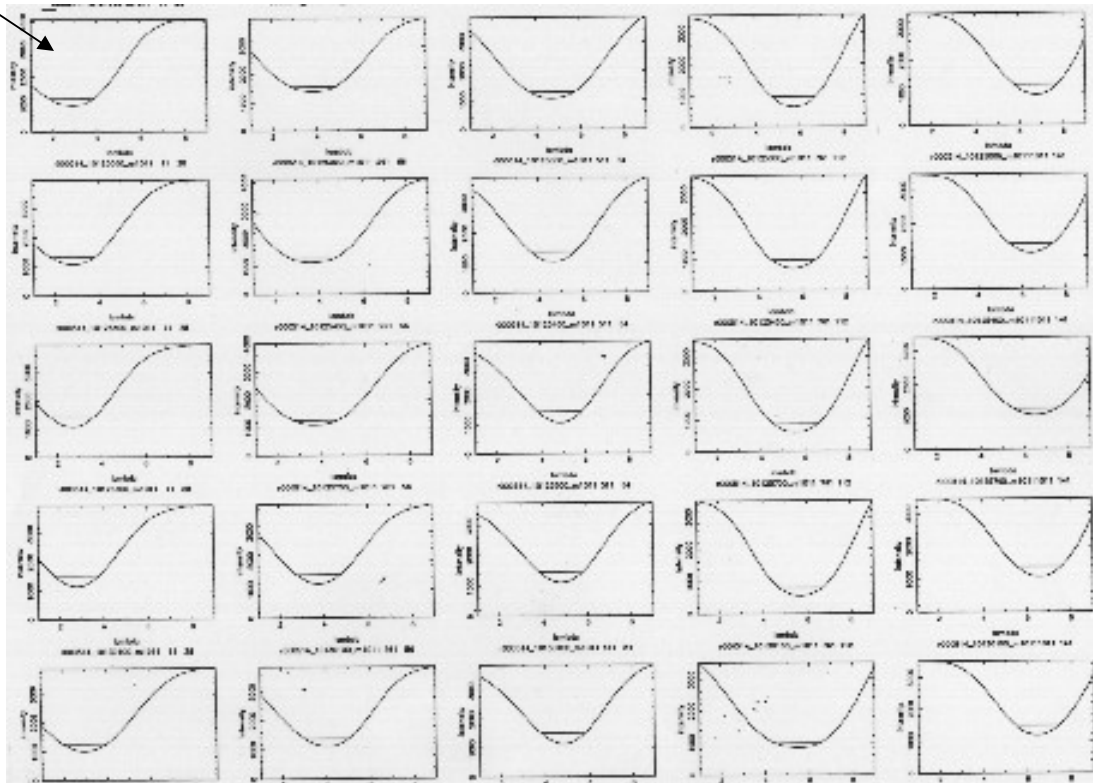


DARK CURRENT (D.C.)

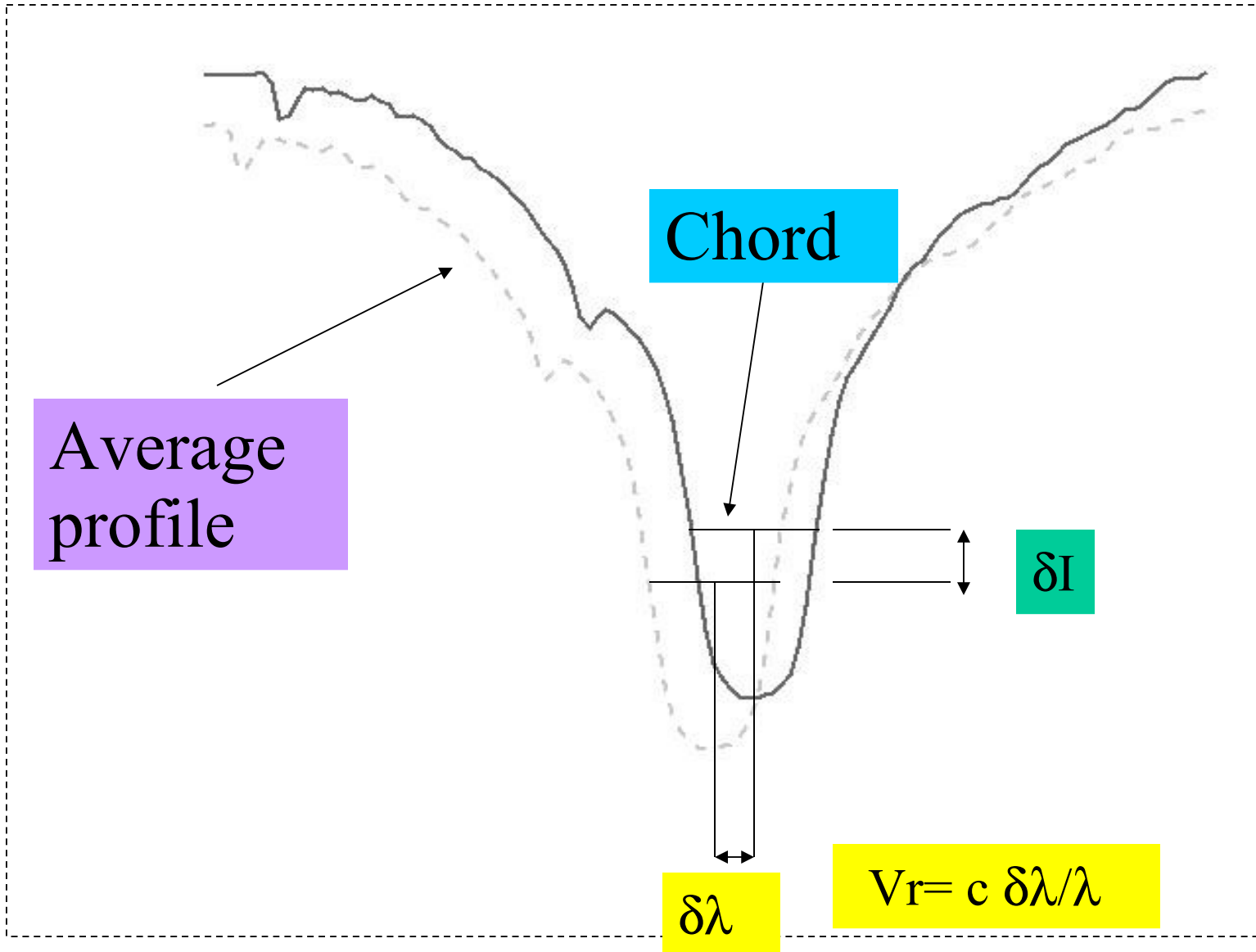
RESULT : LINE PROFILE IN EACH PIXEL OF THE FIELD OF VIEW

profile for one pixel of the field

Example on a very small fraction of the field of view



DETERMINATION OF INTENSITY AND VELOCITY FLUCTUATIONS



RESULT: VELOCITY FIELD FOR DIFFERENT CHORDS



INTENSITY CONTINUUM



INTENSITY 288 mA



DOPPLER VELOCITY 288 mA



INTENSITY 144 mA



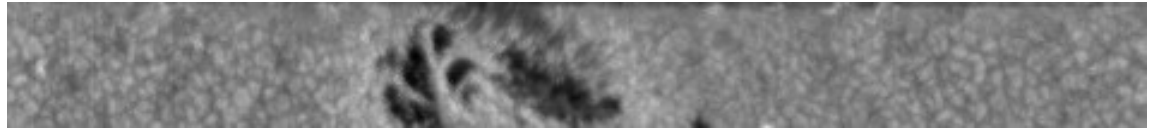
DOPPLER VELOCITY 144 mA



RESULT: INTENSITY, VELOCITY FIELD AND MAGNETIC FIELD



INTENSITY CONTINUUM



INTENSITY 144 mA



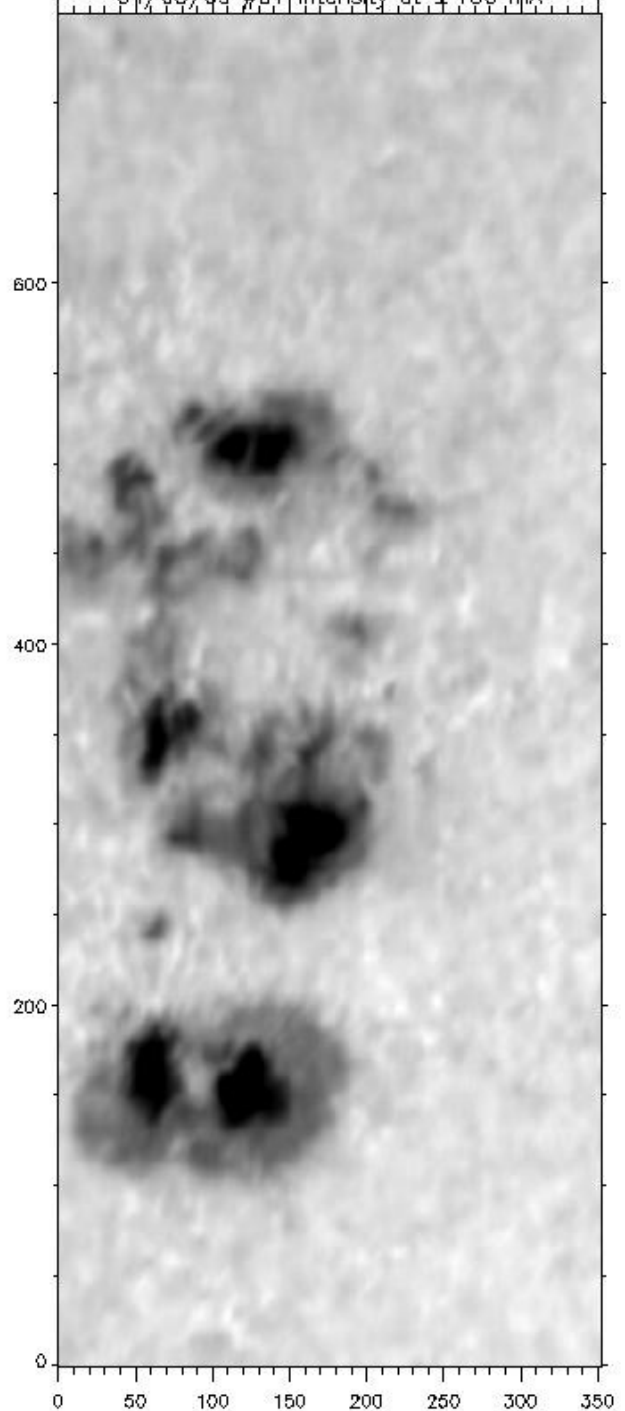
DOPPLER VELOCITY 144 mA



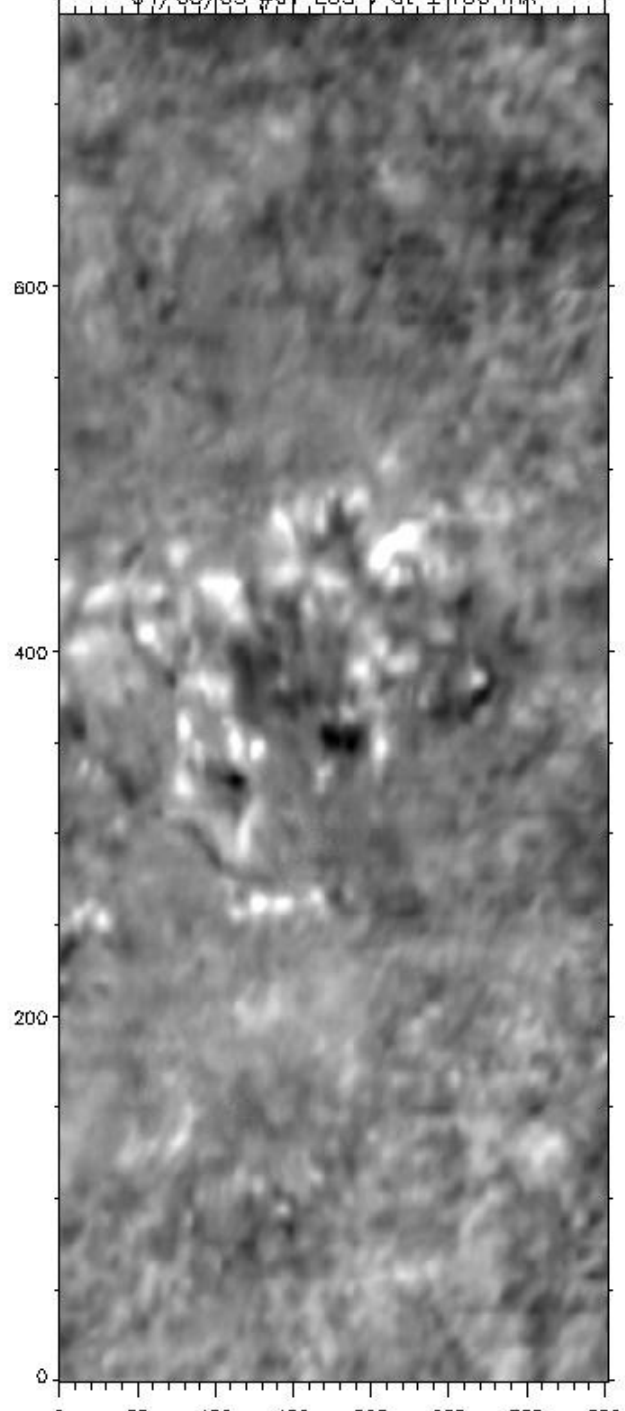
B //



04/08/09 #01, Intensity at ± 160 mÅ



04/08/09 #01, LOS γ at ± 160 mÅ



04/08/09 #01, LOS β at ± 160 mÅ

